PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 151515-248			FOR FURTHER A	CTION	See Form PCT/IPEA/416					
International application No.			International filing da	ste (day/month/year)	Priority date (day/month/year)					
PCT/JP2004/019417			24.12.200		26.12.2003					
International Patent Classification (IPC) or national classification and IPC H01L21/027, G03F7/30										
Applicant TOKYO ELECTRON LIMITED										
	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2. This I	This REPORT consists of a total of sheets, including this cover sheet.									
3. This r	eport is also accom	mpanied by Al	NNEXES, comprising:							
. 5	71				sheets, as follows:					
4. 6.	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
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	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4. This	eport contains indi-	cations relatir	ng to the following iter	ns:						
	Box No. I	Basis of the	report							
	Box No. II	Priority								
	Box No. III	Non-establis	hment of opinion with	regard to novelty, inventi	ive step and industrial applicability					
	Box No. IV	Lack of unit	y of invention .		;					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement									
	Box No. VI	Certain docu	ments cited							
	Box No. VII	x No. VII Certain defects in the international application								
	Box No. VIII Certain observations on the international application									
Date of submission of the demand				Date of completion of thi	s report					
Name and mailing address of the IPEA/JP				Authorized officer						
Essai mila Ma				Telephone No						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/019417

Box	No. I	Basis of the report		
1.	With regard to indicated und	o the language, this report is based on the internation er this item.	nal application in the language in	which it was filed, unless otherwise
		port is based on translations from the original langua s the language of a translation furnished for the purp		
	i	nternational search (Rule 12.3 and 23.1(b))		
		ublication of the international application (Rule 12.4)		•
		nternational preliminary examination (Rule 55.2 and/		
2.	receiving Off. this report):	to the elements of the international application, this ice in response to an invitation under Article 14 ar		
	\square	rnational application as originally filed/furnished cription:		
	pages	1-21		as originally filed/furnished
			received buthis Authority on	
	pages*			
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	nos.	2-12,14-25	•	as originally filed/furnished
	nos.*			er with any statement) under Article 19
1	nos.*		received by this Authority on	
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	the drav	wings:		
	sheets	fig. 1-18		as originally filed/furnished
	sheets*		received by this Authority on	
	sheets*		received by this Authority on	
	a seque	nce listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence I	isting.
3.	The am	nendments have resulted in the cancellation of:		
	ıı	he description, pages		
	<u></u> 11	he claims, nos.		
	ıı	he drawings, sheets/figs		
		he sequence listing (specify):		
		ny table(s) related to sequence listing (specify):		
4.	This re	port has been established as if (some of) the amendate been considered to go beyond the disclosure as fi		
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		he sequence listing (specify):		
		ny table(s) related to sequence listing (specify):		
		lies, some or all of those sheets may be marked "sup		

International application No.
PCT/JP2004/019417

			r Article 35(2) with regard to novelty, inventive step or industrial applicability; s supporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-25	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-25	NO
	Industrial applicability (IA)	Claims	1-25	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 11-111603 A (Dainippon Screen Mfg. Co., Ltd.), 23 April 1999

Document 2: JP 2003-303752 A (Hitachi, Ltd.), 24 October 2003

Claims 1 to 25

The inventions set forth in claims 1 to 25 do not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Document 1 (refer to paragraph [0025] and fig. 8) discloses a developing device for supplying a developer to a substrate in a helical pattern, wherein a developer discharging nozzle with a plurality of discharge apertures for discharging the developer, which are arranged in a row that has a length shorter than the radius of the substrate, is used to discharge the developer while rotating the substrate and moving said nozzle in a manner such that the array direction of the plurality of discharge apertures and the movement direction of said nozzle are parallel to one another.

On the other hand, document 1 does not disclose the feature wherein the discharge openings of the developer nozzle discharge the developer in long, thin bands;

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

however, slit nozzles are known to be nozzles for supplying a developer over a wide area in the lengthwise direction, as is apparent in the light of the slit nozzle disclosed in document 2. Such being the case, it would have been easy for a person skilled in the art to conceive of applying this well-known nozzle instead of a nozzle with a plurality of discharge apertures that are arranged in a row as the developer discharging nozzle in the developing device disclosed in document 1.